

MFPA DESIGNATION 704

HAZARD RATING	HEALTH	0
4=Extreme		
3=High	FIRE	1
2=Moderate		
1=Slight	REACTIVITY	0
0=Insignificant		
	SPECIFIC HAZARD	NONE



MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
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APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: MAN-863 HONING OIL

CHEMICAL FAMILY: NON-PETROLEUM FATTY OIL WITH ADDITIVES AND METAL DEACTIVATOR.
CLASSIFICATION: NOT APPLICABLE
D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	WT % Range	CARCINOGENIC
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WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200 MAN-852 WAS JUDGED TO BE NON-HAZARDOUS.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----91
PERCENT VOLATILE BY WEIGHT-----1X
BOILING POINT-----460 F (235 C)
VAPOR PRESSURE (mm Hg)-----1mm Hg @ 68 F (20 C)
VAPOR DENSITY (AIR=1)-----Heavier than air.
EVAPORATION RATE-----Negligible
SOLUBILITY IN WATER-----Negligible. Material is completely soluble in common hydrocarbon or chlorinated hydrocarbon solvents such as mineral spirits or trichloroethane.
REACTIVITY IN WATER-----No hazardous reactions.
APPEARANCE AND ODOR-----Amber color liquid with fatty odor.

SECTION 4 SPECIAL PRECAUTIONS HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to MSDS Section 7 & 8

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage.
POLYMERIZATION: Hazardous polymerization will not occur.

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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid. Product may react with any amount of alkali such as part cleaners to form corresponding amounts of soaps and/or emulsions.
Contains Amines. Do not add sodium nitrite or other nitrosating agents to this material. Suspected cancer-causing nitrosamines could be formed.

CONDITIONS TO BE AVOIDED: Oxidizing conditions. Mixing with water or alkali (forms soaps).

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Sulfur, Carbon and Nitrogen. Material is organic and will slowly oxidize and decay forming compounds containing Carbonyl group, Hydroxyl group, Carboxyl group, Oxirane, glycerol, hydroperoxides, aldehydes, ketones and acids.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION. Abbreviations used in the following sections: SKIN=Skin absorption. EYE=Eye contact. INHAL=Inhalation INGEST=Ingestion.

ACUTE: SKIN: Material is not sterile and may infect open cuts or sores. When tested, MAN-863 was judged to be non-irritating per 16 CFR 1500.3(c)(4). Primary irritation index=0 (Albino Rabbits). EYE: Overheating (>200 F) used material can release Acrolein (an eye irritant) causing redness and burning of the eyes. When tested, MAN-863 was judged to be non-irritating per 16 CFR 1500.42 No corneal opacity, iritis or moderate conjunctival irritation after; 1,2,3 days (Draize, rabbits). INHAL: Not established. Suggest ACGIH limits for vegetable oil mists of 5 mg/cu m. be observed. Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mists or vapors. INGEST: Loose bowel movements. Acute oral toxicity: LD 50>5 gm./kg. (rats). CHRONIC SKIN: Prolonged repeated skin contact can cause skin irritation or oil acne: inflammation and blackheads due to mechanical blockage of the pores. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. EYE: None known. INHAL: None known. INGEST: None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. SKIN CONTACT: Wash contact areas with mild non-abrasive soap and water. INGESTION: Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent rusting of drums and spilling contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. Spilled material creates a fall/slip hazard. Since emptied containers retain material residue, follow label warnings even after container is emptied and do not reuse container for other purposes. Do not cut, braze, weld, solder, pressurize or introduce ignition sources in or around container. Do not transfer to unlabeled containers. For industrial use only. Material should be heated to 100 F and mixed prior to transfer of contents if product separates as a result of cold storage (T<50 F). Vent container if heating. Use drum heater for drums. Pails may be immersed in hot water to warm contents. Use personal protection equipment and precautions as specified in Section 8.

NORMAL USE: Material is for use in Honing Machines only. Material may be mixed with other Sunnen Honing Oils only. Clean material from parts using alkaline cleaner. Pollution by any amount of water or alkaline material will lead to the formation of soaps that clog the Honing Machine oil filter.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbent. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to mist levels >5 mg/cu m or if operator experiences any respiratory irritation use NIOSH approved respirator rated for use with mineral or vegetable oil mist.

VENTILATION **LOCAL:** Normal ventilation.

MECHANICAL: Required if use conditions give rise to mist levels greater than 5 mg/cu m or if operator experiences any respiratory or eye irritation.

PROTECTIVE GLOVES: If preferred or if sensitivity to material has been demonstrated use gloves rated for animal or vegetable oil.

EYE PROTECTION: Glasses or goggles to prevent inadvertent splashing of material into eyes. Always wear safety glasses while working around or operating machinery.

OTHER PROTECTION: Apron or barrier cream if desired. Do not wear oil-soaked clothing as it may cause skin irritation or oil acne.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL:
Same as for petroleum lub oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources by cleaning with caustic cleaners.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT-----558 F (290 C) ASTM D-92

FLAMMABLE LIMITS IN AIR mg/l @ 24 C & 750 mm Hg. LEL= 68 UEL= 76

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

AUTO-IGNITION TEMPERATURE: NAIF

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion will produce oxides of Carbon, Sulfur and Nitrogen. Sealed containers may leak, burst or explode, releasing contents and spreading fire, if exposed to extreme heat.

NOTICE

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